

DICOMED CORPORATION

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In response to your request for information about the DICOMED D48 Graphic Recorder, a brochure is enclosed which describes its specific features and specifications. The D48 produces vector and raster images of exceedingly high quality for graphic COM applications at the highest rates of speed available. As DICOMED's most recent offering in film recorders, the D48 utilizes many successful years of experience in digital image recording and represents the latest developments in CRT recording technology. By incorporating both color and black and white capabilities, the D48 offers the ultimate in microfilm recording.

A choice of equipment configurations is available for the greatest possible system flexibility. The D48 unit alone may be connected directly to any standard digital computer through its 16-bit word format interface. DICOMED has also developed the complete D48 Graphic COM System to meet the exacting requirements of graphic COM applications. The System is well suited for scientific as well as commercial applications, including computer simulation output, vector or full raster business graphics, computer animation, graphic plotting, high resolution digital image recording, and basic microfilm and microfiche recording.

We would appreciate the opportunity to discuss your specific application requirements in detail. Please let us know if we can provide additional information or assistance.

Sincerely,

DICOMED CORPORATION



Wayne R. Huelskoetter
Vice President

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DICOMED[®]



D48 GRAPHIC RECORDER

The DICOMED D48 Graphic Recorder is a precision, high-resolution Computer Output to Microfilm (COM) plotter designed to meet the needs of business, engineering, and scientific graphic recording applications. The D48 combines state of the art technology of the latter 1970's with the time-tested experience of DICOMED Corporation in precision digital black and white and color film recording to provide a machine of unsurpassed versatility and speed. The D48 produces high quality vector and raster graphics in color and black and white as well as providing standard alphanumeric COM.

Standard features of the D48 include addressability of 32,768 by 32,768; high-speed vector and raster plotting; 256 intensity levels; high-speed programmable hardware character generation; a complete range of interchangeable optical assemblies; and precision film transports to accommodate standard 16, 35, 70, and 105mm (microfiche) film formats.

To achieve the ultimate in system flexibility, DICOMED affords the user a choice of equipment configurations. Offered separately, the D48 may be connected directly to any standard digital computer through its 16-bit word format interface. DICOMED also offers a complete Graphic COM System, which includes the D48 together with a control computer and associated peripherals.



The DICOMED Graphic COM System Software, used in conjunction with the System, is a modular software package providing basic job and recorder control and modules for software character generation, alphanumeric microfiche formatting, color control, and emulation of other commercially available plotters.

The flexibility of the DICOMED D48 Graphic Recorder makes it particularly well suited for both on-line and off-line applications in...Scientific Graphic Plotting...Simulation...Animation...Alphanumeric COM...Engineering Drawings...and Business Graphics.

D48 GRAPHIC RECORDER SPECIFICATIONS

The DICOMED D48 Graphic Recorder represents the optimal combination of the latest analog, digital, and optical developments to achieve the highest throughput of any precision black and white and color graphics recorder available today. A unique length dependent digital vector generation technique is combined with DICOMED's precision time modulation exposure system to produce images of unsurpassed quality and speed.

VECTOR MODE

- 32,768 x 32,768 addressable points
- Absolute and relative vectors
- Speed: function of vector length
- 256 intensity levels

RASTER MODE

- 4096 x 4096 addressable points
- Programmable element size and spacing
- Speed: 100K-250K points/sec.
- 256 intensity levels

POINT PLOT MODE

- 32,768 x 32,768 addressable points
Random point speed: 10K points/sec.
- 4096 x 4096 addressable points
Adjacent point speed: 100K-250K points/sec.
- 256 intensity levels

HARDWARE CHARACTER GENERATOR (OPTIONAL)

- 128 character set (192 optional)
- 25,000 characters/second
- Programmable fonts
- 256 character sizes
- 4 orientations

PRINTER MODE

- 25,000 characters/second
- 12,000 lines/minute
- 140 frames/minute (132 x 64)

COLOR RECORDING

- 256 intensity levels per primary color
- Single pass "hit" plotting
- 7-color filter system
- 120-250 millisecond filter change time

FILM FORMATS

- Black and white
16mm
35mm (aperture format)
105mm (24X, 42X, 48X)
- Color
16mm (cine)
35mm (cine)
35mm (comic)
70mm
105mm (24X)

OPERATIONAL FEATURES

- Programmable exposure translation tables
- Operator control panel
- Maintenance panel
- Programmable film type selection
- Automatic system protection
- Simple calibration technique

OPTIONS

- Hardware Character Generator
- Display Monitor
- Extended 192 Character Set
- Camera Exchange Mechanism
- Interfaces to any standard digital computer
- Auxiliary Cabinet
- Off-line Graphic COM System

POWER

- 115 VAC $\pm 10\%$
- 50-60 Hz
- 10 amps

ENVIRONMENT

- 60-80° F (16-27° C)
- 45-55% relative humidity

PHYSICAL CHARACTERISTICS

- 50" wide, 23" deep, 72" high
- 500 pounds

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